



Healthcare and Life Sciences Snapshot: Norfolk – the Medical Hub of the Region

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Overview

- I. Anchor Institutions
- II. Research Facilities
- III. Commerce – Illustrative Examples

Industry Clusters

Definition of healthcare and life sciences sector:

A broad and diverse group of industries with a primary focus on human healthcare.

Why they matter:

- Can attract new income and help increase wages.
- Potential to contribute to new business start-ups and expansions (e.g., via technology transfers, other spending).
- A source of and magnet for well-educated talent.

→ Healthcare / Life Sciences

→ Maritime / Supply Chain

→ Defense / Cybersecurity

→ Innovation / Technology / Manufacturing

→ Headquarters

→ Policy Associations

→ Creative / Artisanal / Film

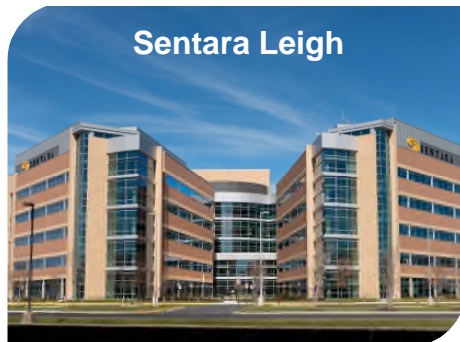
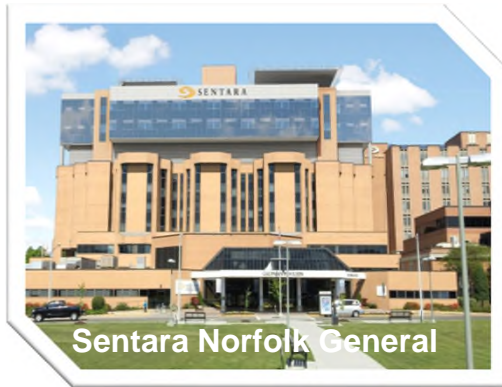
→ Retail

→ Renewable Energy/Resiliency

Healthcare / Life Sciences Overview

Top Employers

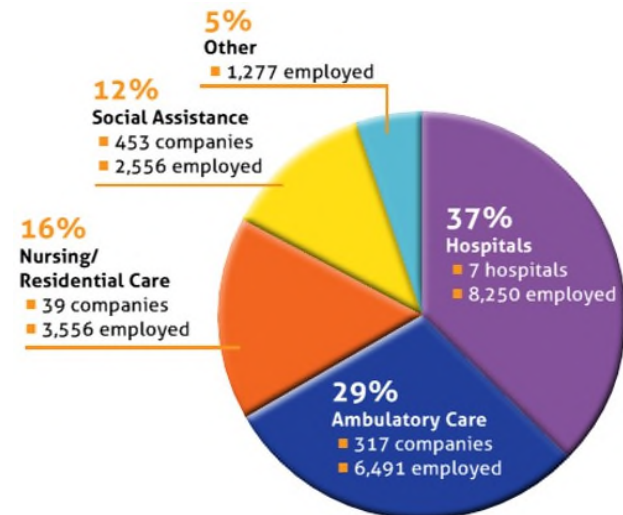
- Sentara Norfolk General Hospital
- Childrens Hospital of the Kings Daughters
- Sentara Leigh Hospital
- Sentara Lifecare Facilities
- Bon Secours Depaul Sentara



Noteworthy life sciences companies

- CIRS
- Beaufort LLC
- Eye Rx Research
- Cell Micro Controls
- Insight Therapeutics
- EOS

- ❑ Healthcare accounts for over 20,000 jobs in Norfolk, and is the largest civilian employment sector, with nearly 16% of all jobs
- ❑ Norfolk is first in the region for health care facilities, with over 1,200 licensed hospital beds in top ranked institutions
- ❑ Sentara Healthcare is the city's largest private employer
- ❑ Over 800 healthcare related companies in Norfolk



Breakdown of Health Care / Life Sciences Jobs



Eastern Virginia Medical Complex



RIVERFRONT DIAGNOSTIC CENTER
At Fort Norfolk Plaza

Sentara Norfolk General Hospital



Children's
Hospital
of The King's
Daughters

EVMS
Eastern Virginia Medical School



FORT NORFOLK MEDICAL
AT FORT NORFOLK PLAZA



SENTARA HEART



- ❑ Sentara Norfolk General – Sentara Heart Hospital was nationally ranked by U.S. News and World Report in 2015-2016 as one of the top 50 hospitals for cardiology and heart surgery, as well as ear, nose, and throat care
- ❑ \$199 million project at Sentara Norfolk General to be completed in 2020 - will add floors to two existing wings, expand and modernize 18 operating rooms, replace a 48-bed ward-style special care nursery with a state-of-the-art unit with private and semi-private rooms, and consolidate the hospital's 54 ICU beds on two floors
- ❑ Over 8,100 total jobs in the medical complex vicinity

Sentara Leigh Vicinity



Sentara Leigh Hospital



- ❑ Sentara Leigh Hospital has recently completed a \$120 million renovation
- ❑ 3,200 jobs in the immediate vicinity
- ❑ Over 80 medical/life science related businesses within one mile of Sentara Leigh



Bon Secours Network



Bon Secours DePaul
Medical Office Building

- \$25 million investment in specialist care & comprehensive cancer institute
- Opened in 2015

Over 1,000 jobs



Ghent Station

- Two-story medical office building Opened in 2015

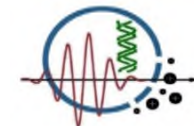


Bon Secours DePaul Medical Center



Medical Research Centers

- ☐ Frank Reidy Research Center for Bioelectrics
- ☐ National Center for Collaboration in Medical Modeling & Simulation
- ☐ The Epidemiology-Biostatistics Epi-Bio Core
- ☐ CONRAD – Contraceptive Research and Development
- ☐ Glennan Center for Geriatrics and Gerontology
- ☐ Jones Institute for Reproductive Medicine
- ☐ Pediatric Clinical Research Unit
- ☐ Sleep Disorders Center
- ☐ Thomas R. Lee Center for Ocular Pharmacology
- ☐ ODU Dental Hygiene Research Center
- ☐ C3ID – Center for Comprehensive Care of Immune Deficiency
- ☐ CRC – Obstetrics & Gynecology Clinical Research Center
- ☐ Strelitz Diabetes Center
- ☐ Leroy T. Canoles Jr. Cancer Research Center
- ☐ Sentara Center for Simulation and Immersive Learning at EVMS

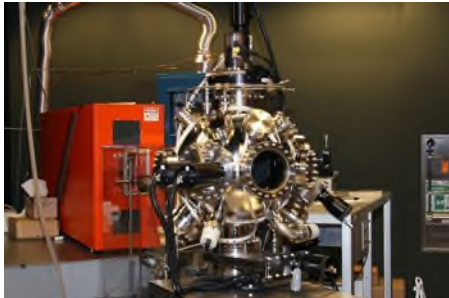


In the *U.S. News and World Report's Best Hospitals 2014-15* list, the geriatrics program at Sentara Norfolk General Hospital (SNGH) was recognized as "high performing," meaning the quality of care ranked in the top 25 percent nationwide. EVMS faculty from the Glennan Center for Geriatrics and Gerontology help staff SNGH — the top-rated hospital in Virginia — and its geriatrics program.



Medical Research Continued: Selected Labs & Diagnostics Centers

- ☐ The Cave at ODU – Avatar 3-D
- ☐ Micro- and Nano-technology Cleanroom - McDemmond Applied Research Center at NSU
- ☐ George L. Wright, Jr. Center for Biomedical Proteomics (EVMS)
- ☐ Organic/Polymeric Materials Laboratory (NSU)
- ☐ Virginia Department of Forensic Science – Eastern Laboratory



Norfolk Healthcare / Life Sciences: Sampling of Businesses

- **Cell Microcontrols** — design and manufacture temperature control and perfusion instruments for electrophysiology and microscopy research
- **Computerized Imaging Referencing Systems (CIRS)** — recognized world wide for tissue simulation technology
- **Beaufort LLC** — global contract research organization that partners with in vitro diagnostic, medical device, and biopharmaceutical developers to provide clinical and regulatory services and a full range of quality solutions and staffing solutions
- **Embody, LLC** — a development-stage regenerative medicine medical device company developing innovative products for surgical repair and replacement of tendons and ligaments. Working in partnership with the Department of Defense, Embody is developing products to treat orthopedic injuries in elite warfighters.
- **EyeRx Research, Inc.** — corporation founded in 1999 by two ophthalmologists and two pharmacologists – dedicated to developing and bringing to the commercial marketplace products that will aid vision and prevent blindness
- **EOS** — Created the revolutionary new Cupron protected EOS surface
- **Insight Therapeutics** — clinical research, professional medical education, patient care, and health communications organization



Summary: Engaging with and Nurturing our Healthcare and Life Sciences Sector

1. Retaining existing institutions and businesses via systematic outreach
2. Attracting new healthcare partners
3. Expanding early stage firms – fostering mentorship and facilitating access to capital

